

RS-1600-5251F

The 5251F is the latest implementation of 2Gb RAID controller technology to be integrated into the Xyratex RS-1600 family of enclosures.

Answering the intensive demands of today's applications, uncompromising data-protection and exceptional data throughput, the 5251F provides exceptionally high performance of up to 380MB/sec RAID 5 and operational performance levels exceeding 90,000 IOPS.

Featuring RAID levels 0, 1 (0+1), 3, 5, 10, 30 and 50, the 5251F is engineered with fault-tolerant active-active redundant configuration, dedicated/global hot-spares and 72 hour battery protected disk cache. Hot-swappable controllers, fully redundant components and the ability to manage and maintain over 16 TB of storage data further enhance the robustness of the RS-1600-5251F design.

The Java-based RAIDWatch GUI manager is rich in configuration options and allows users both in-band and out-of-band management. Event Monitor provides system managers with the freedom of a real-time and flexible array monitoring.

The RS-1600-5251F is ideally suited to today's dynamic business environment.

About the RS-1600-FC Enclosure

The Xyratex RS-1600 enclosure has 16 hot-swappable disk drives in just three standard units of rack space; industry leading capacity in this form factor.

Designed with hot-swappable data path logic, power supplies, cooling modules and enclosure management functions this fully redundant array is designed to meet the demands of 24/7 operation.

Customization services are available for drive carrier and chassis bezel plastics. Please contact your sales representative regarding your individual company branding requirements.



RAID Features

- RAID levels 0, 1 (0+1), 3, 5, 10, 30 and 50 supported
- Scalable to 112 drives
- Sustained performance of 90,000 IOPS
- Active-Active failover with dual hot-pluggable controllers
- Online RAID expansion and firmware upgrade, enabling uninterrupted reconfiguration.
- Memory Cache up to 1 Gb sustained for 72 hours in event of power failure
- Remote array configuration and monitoring
- Java based GUI management software over out-of-band 10/100 Ethernet Port

Technical Specification

Product Code:	RS-1600-5251F
FC-AL Drives Supported:	16 per enclosure
FC Drives Supported:	18, 36, 73 and 146 GB drives up to 15000RPM
Chassis Material:	Combination of pre-plated sheet metal, injection moulded plastics and meta castings
Hot Pluggable Components:	PSU, cooling modules, disk drives I/O modules and controllers

Dimensions

Height: (3 EIA Units)	130mm (5.12")
Width: (1EC Rack Compliant)	482.6mm (19.0")
Depth:	500mm (19.68")
Weight:	35Kg (77.6 lbs)

Power

Voltage:	110 to 260V AC or -48V DC
Frequency:	48-62 HZ
Power:	450W

Temperature & Humidity

Temperature Range: (Operating)	+5 to +40°C
Humidity non-condensing:	20% - 80%

Altitude

Operational:	0 to 2133m
Non-Operational:	-305 to 12,192m

Shock & Vibration

Operational Shock:	5g 10ms 1/2 Sine
Operational Vibration:	Random 0.21grms 5-500Hz
Non-Operational Shock:	30g 10ms 1/2 Sine
Non-Operational Vibration:	Random 1.04 grms 2-200 Hz
Relocation Vibration:	Swept Sine 0.3g 2-200Hz

Acoustics

Sound Power Operating:	Less than 6.0 LwA @20°C
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